⁴ 5	✓ *	0/-28-02	JC10 Rec'd POT/PTO 2 4 JAN/20021									
	(REV. 11-2000)	MENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER									
	TRANSMITTAL LETTER TO		011310									
01/2	DESIGNATED/ELECTED CONCERNING A FILING	UNDER 35 U.S.C. 371	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)									
4/02	PCT/EP00/05789	INTERNATIONAL FILING DATE 6/23/2000	PRIORITY DATE CLAIMED 7/31/99									
	OF INVENTION: FLAT, FLEXIBLE,	BONDED COMPOSITE MATERIAL										
	APPLICANT(S) FOR DO/EO/US Gerold T	ehhe										
	Applicant herewith submits to the United State		the following items and other information:									
	1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.											
	 This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected by the expiration of 19 months from the priority date (Article 31). 											
	5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2))											
•	a. x is attached hereto (required only if not communicated by the International Bureau).											
×	b. x has been communicated	by the International Bureau.										
	c. is not required, as the a	oplication was filed in the United States I	Receiving Office (RO/US).									
	a. x is attached hereto. b. has been previously sub x Amendments to the claims of the Ir a. are attached hereto (req	the International Application as filed (35	5 U.S.C. 371(c)(2)).									
¥	a. x is attached hereto.											
	b. has been previously sub	mitted under 35 U.S.C. 154(d)(4).										
4	X Amendments to the claims of the In	nternational Application under PCT Artic	ele 19 (35 U.S.C. 371(c)(3)).									
	a. are attached hereto (req	uired only if not communicated by the In	ternational Bureau).									
	b. have been communicate	d by the International Bureau.										
		wever, the time limit for making such am	endments has NOT expired.									
	d. x have not been made and	will not be made.										
	An English language translation of	the amendments to the claims under PCT	Article 19 (35 U.S.C. 371(c)(3)).									
	X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).											
	10. x An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).											
	Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.											
	12. X An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.											
	13. X A FIRST preliminary amendment.											
	14. A SECOND or SUBSEQUENT preliminary amendment.											
	15. A substitute specification.											
	16. A change of power of attorney and/or address letter.											
	17. A computer-readable form of the se	equence listing in accordance with PCT R	Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.									
	18. A second copy of the published into	ernational application under 35 U.S.C. 15	54(d)(4).									
	19. A second copy of the English langu	age translation of the international applic	cation under 35 U.S.C. 154(d)(4).									
	20. X Other items or information: Postcar	d; Certificate of Express Mail										

U.S. APPLICATION NO. (if known	, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO. PCT/EP00/05789			ATTORNEY'S DO-	CKET NUMBER
21 x The following	ng fees are submitted:	•			CALCULATION	S DTO USE ONI V
<u> </u>	EE (37 CFR 1.492 (a) (1) - (5)) :			CALCULATION	13 PIO USE ONLI
Neither international	preliminary examinatio	n fee (37 CFR 1.482)				
nor international searce and International Searce	ch fee (37 CFR 1.445(a rch Report not prepared	1)(2)) paid to USP10 I by the EPO or JPO		. \$1,040.00		
International prelimin	ary examination fee (3'	7 CFR 1.482) not paid to pared by the EPO or JPO		·		
International prelimin but international search	ary examination fee (3°ch fee (37 CFR 1.445(a	7 CFR 1.482) not paid to US (2)) paid to USPTO	PTO	\$740.00		
International prelimin but all claims did not	ary examination fee (3' satisfy provisions of PC	7 CFR 1.482) paid to USPTC CT Article 33(1)-(4)) 	. \$710.00		
International prelimin and all claims satisfied	ary examination fee (3° d provisions of PCT A	7 CFR 1.482) paid to USPTC rticle 33(1)-(4)) 	. \$100.00		
	ENTER APPROI	PRIATE BASIC FEE	AMC	OUNT =	\$890.00	
Surcharge of \$130.00 months from the earlie	for furnishing the oath est claimed priority dat	or declaration later than e (37 CFR 1.492 (e)).		20 🔲 30		
CLAIMS	NUMBER FILED	NUMBER EXTRA		RATE	\$	
Total claims	17 - 20 =	0	Х	\$18.00	\$0.00	
Independent claims	1 - 3 =	0	Х	\$84.00	\$0.00	
	DENT CLAIM(S) (if a	pplicable)		+ \$280.00	\$0.00	
Application of the control of the co	TOTA	L OF ABOVE CALC	ULA	TIONS =	\$890.00	
Applicant clair are reduced by		See 37 CFR 1.27. The fees	indica	ited above	\$445.00	
partition of the state of the s		S	UBT	OTAL =	\$445.00	
Processing fee of \$130	\$0.00					
The second secon	\$445.00					
Fee for recording the	enclosed assignment (3	TOTAL NATI 37 CFR 1.21 (h)). The assign 37 CFR 3.28, 3.31). \$40.00	ment	must be	\$40.00	
		TOTAL FEES E			\$485.00	
					Amount to be refunded:	\$
					charged:	\$
a. x A check in	n the amount of \$485.0	0 to cover the above fees is	enclos	ed.		
	arge my Deposit Accou te copy of this sheet is	enclosed.	in th	e amount of \$	to cove	r the above fees.
Î	• •		1.0	1 . 1 . 1	. 1	•
	missioner is hereby authent to Deposit Account	horized to charge any addition the No. 50-0545			of this sheet is enclo	
d. Fees are t	o be charged to a credition should not be incl	t card. WARNING: Informated on this form. Provide	ation (on this form ma t card informati	y become public. On and authorizatio	C redit card n on PTO-2038.
NOTE: Where an a 1.137 (a) or (b)) mus	ppropriate time limit t be filed and granted	under 37 CFR 1.494 or 1.4 to restore the application	95 ha to pe(s not been met iding status.	a petition to revi	ve (37 CFR
SEND ALL CORRESP	ONDENCE TO:			/~	1//	
Jody L. Factor				SIGNAT	JRE	
FACTOR & PARTNI 1327 W. Washington	actor					
Chicago, IL 60607	Divu., Suite 3 U/II		1	Jody L. F		
<u></u>						
				40039 REGISTE	RATION NUMBER	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Deotexis, Inc.

CASE:

011310

PRELIMINARY

SER. NO.:

To be assigned

AMENDMENT

FILING DATE:

FOR:

FLAT, FLEXIBLE, ABSORBING LAMINATING COMPOSITE

MATERIALS

ASSISTANT COMMISSIONER

FOR PATENTS

Washington DC 20231

ATTENTION OF:

EXAMINER:

Dear Sir:

If any charges or fees must be paid in connection with the following communication, they may be paid out of our Deposit Account No. 50-0545.

FACTOR & PARTNERS, LLC 1327 West Washington Blvd., Suite 5G/H Chicago, Illinois 60607 (312) 226-1818 Telephone (312) 226-1919 Facsimile Jody L. Factor, Reg. No. 34157

IN THE CLAIMS CANCEL

Please cancel claims 1-10 without prejudice.

IN THE CLAIMS ADD

Please add claims 11-27 as follows:

- 11. A flat, flexible laminated composite material comprising:
 - a liquid-impermeable layer (14), and
 - a liquid-absorbent layer (16) bonded to the liquid-impermeable layer (14), wherein a support layer (12) comprising a flexible network layer (34) carries the liquid-impermeable layer (14).
- 12. The laminated composite material according to claim 11, wherein the liquidimpermeable layer is a film or sheet material (14).
- 13. The laminated composite material according to claim 12, wherein the liquidabsorbent layer (16) includes a pile (22) of a material (24).
- 14. The laminated composite material according to claim 13, wherein the material(24) is selected from the group consisting of cotton, cotton fibers, and wool.
- 15. The laminated composite material according to claim 11, wherein the liquid-

absorbent layer (16) includes a pile (22) of a material (24).

- 16. The laminated composite material according to claim 15, wherein the material(24) is selected from the group consisting of cotton, cotton fibers, and wool.
- 17. The laminated composite material according to claim 15, wherein the liquidabsorbent layer (16) comprises a fleecy material.
- 18. The laminated composite material according to claim 11, wherein the liquidabsorbent layer (16) is a fleece layer.
- 19. The laminated composite material according to claim 12, wherein the liquidabsorbent layer (16) is a fleece layer.
- 20. The laminated composite material according to claim 11, wherein the liquidabsorbent layer (16) contains microcapsules (28);
 - the microcapsules (28) being filled with a substance (32); and
 - wherein the microcapsules (28) include a covering (30) that can be degraded or destroyed by at least one of pressure, temperature or moisture.
- 21. The laminated composite material according to claim 20, wherein the liquid

absorbant layer (16) includes a pile (22) of a material (24), and wherein the liquid absorbant layer (16) contains microcapsules (28), and means for adhering the microcapsules (28) to the material (24) of the pile (22).

1 4 1 v

- 22. The laminated composite material according to claim 21, wherein the adhering means comprises a bonding agent (26).
- 23. The laminated composite material according to claim 11, wherein the flexible network layer (34) comprises a material having a high degree of friction.
- 24. The laminated composite material according to claim 23, wherein the flexible network layer (34) comprises rubber.
- 25. The laminated composite material according to claim 11, further including a liquid-permeable cover layer (18), the liquid-absorbant layer (16) being positioned between the liquid permeable cover layer (18) and the liquid-impermeable layer (14).
- 26. The laminated composite material according to claim 25, wherein at least one of the liquid-permeable cover layer (18) and the liquid-absorbant layer (16) includes a hydrophobic material.

27. The laminated composite material according to claim 25, further including a bonding agent (26) provided on a plurality of bonding positions (36) spaced apart from one another and distributed on the liquid-absorbant layer (16) for bonding the liquid-absorbant layer (16) to the liquid-permeable cover layer (18).

Respectfully submitted,

FACTOR & PARTNERS, LLC

Dated: January 24, 2002

Jody L. Falgtor

One of Applicant's Attorneys

10

FLAT, FLEXIBLE, ABSORBING LAMINATED COMPOSITE MATERIALS

The present invention relates to a flat, flexible, laminated composite material.

Such laminated composite materials are known in many forms, for example as non-woven fabrics, felts, bonded fabrics, creel composite materials or laminated materials (bondings).

Such known laminated composite materials are either not watertight or, if they contain a water-impermeable layer, are uncomfortable to wear since water collects on the side of the laminated composite material next to the user, who finds this unpleasant.

Although textiles containing a laminated composite material are already known (e.g. nappies or liners), these textiles have only a limited area of application however. A basic textile material from which textiles for individual areas of application may subsequently be produced is not provided by these known textiles.

The object of the present invention is accordingly to

25 develop a laminated composite material of the type

mentioned in the introduction so that it is watertight and

at the same time is comfortable to wear.

This object is achieved according to the invention by a laminated composite material having the features disclosed in claim 1.

The mode of action of the laminated structure according to the invention is however comparable to that of the known textiles mentioned hereinbefore: body fluid released by the user is distributed by diffusion in the liquid-absorbent layer so that there is no undesirable accumulation of body fluid at points where the user comes into contact with the laminated composite material. The liquid-impermeable layer

in turn prevents the body fluid from seeping through the laminated composite material and thereby wetting or soaking other substances or objects that are arranged on the side of the laminated composite material remote from the user.

An unpleasant odour due to escaping fluid may possibly also be prevented by the containment of the body fluid in the liquid-absorbent layer.

- 10 The laminated composite material is versatile and may be used for example as a bed inlay or sheet, or also as a textile material to be worn possibly over a conventional nappy.
- 15 The development according to claim 2 is a particularly simple and inexpensive realisation of the liquid-impermeable layer. Depending on the sheet material that is employed (plastics, metal, etc.) the sheet in the laminated composite material may also fulfil a supporting function.
- 20 When using thin polymer sheets, for example of polyethylene, thin and flexible laminated composite materials can be fabricated.
- A high degree of wearer comfort combined with a high liquid absorption capacity of the laminated composite material is achieved by the detailed design of the laminated composite material according to claim 3. The projecting fibres of the pile keep the user's body surface at a predetermined distance from the liquid-impermeable layer, so that contact between the body surface and the liquid-impermeable layer, with the associated danger of accumulation of fluid, is reliably prevented.
- Once again, both the wearer comfort and liquid absorption 35 capacity are improved by the detailed design according to claim 4. In this connection the term fleecy material is

20

30

understood to denote a woollen pile that is substantially higher than the pile of a normal velour material.

With the liquid-absorbent layer according to claim 5, there is again a good wearer comfort combined with a high liquid absorption capacity.

The detailed design of the laminated composite material according to claim 6 additionally has the function of releasing a substance. The amount released as well as the duration of the release can be controlled via the stability of the coating of the microcapsules. Suitable substances include for example menthol extracts, to facilitate breathing, aroma substances or air fresheners.

The detailed design according to claim 7 is intended to maintain an initially established uniform distribution of the microcapsules on or in the laminated composite material.

The detailed design according to claim 8 ensures a mechanical reinforcement of the liquid-impermeable layer.

In this connection, a supporting layer according to claim 9 is both inexpensive and light, but at the same time is fully adequate for applications in which the supporting layer substantially serves as a spacing member between the liquid-impermeable layer and substrate of the laminated composite material.

The embodiment according to claim 10 in addition prevents the laminated composite material from slipping on a backing or substrate.

35 An additional cover layer according to claim 11 provides on the one hand protection for the liquid-absorbent layer, for example against mechanical action, and on the other hand,

particularly if the liquid-absorbent layer is hydrophobic, ensures that the user's body is again additionally insulated against accumulation of liquid in the liquid-absorbent layer.

According to claim 12, the bonding of the cover layer to the liquid-absorbent layer enables endless laminated composite materials having a cover layer to be produced.

- 10 The invention is described in more detail hereinafter with the aid of examples of implementation and with reference to the accompanying drawings, in which:
- Fig. 1 is a section through a cut-out portion of a laminated composite material;
 - Fig. 2 is an enlarged cut-out portion of a pile layer of the laminated composite material of Fig. 1;
- 20 Fig. 3 is a plan view of an alternative laminated composite material, viewed from the support side, and;
- Fig. 4 is a plan view of yet another alternative
 laminated composite material viewed from the side
 next to the user's body.

The laminated composite material identified overall in Fig. 1 by the reference numeral 10 is a flexible sheet 30 material that may be adapted to the body contour of a user.

Starting from a support layer 12, which is shown as the bottom layer in Fig. 1 and consists of a resistant hydrophobic plastics fibre material, the laminated composite material 10 contains the following further layers: a liquid-impermeable sheet 14 of a polymer material (for example polyethylene), a fleecy material layer 16 of

cotton, as well as a cover/woven fabric layer 18 of airpermeable and liquid-permeable textile material. The
fleecy material layer 16 is in turn composed of two layers,
namely a fleecy material base layer 20, to which the sheet
14 is bonded, and a pile layer 22.

The support layer 12 as well as the fleecy material layer 16 are bonded over the whole surface to the sheet 14.

10 The pile layer 22 in the unloaded state of the laminated composite material 10 is about three times thicker than the fleecy material base layer 20. The pile layer is composed of a plurality of individual cotton fibres 24 (see Fig. 2) that project from the fleecy material base layer 20.

The cover/woven fabric layer 18 is loosely bonded to the fleecy material layer 16.

The structure of the fleecy material layer 16 will become clear from the cut-out portion of the laminated composite material 10 of Fig. 1, illustrated in Fig. 2: a plurality of cotton fibres 24, which extend between the fleecy material base layer 20 and the cover layer 18, form the pile layer 22.

As is illustrated in particular in the enlarged cut-out portion of Fig. 2 in the region of a cotton fibre 24, microcapsules 28 adhere to the cotton fibres 24 by means of a bonding agent 26.

The microcapsules 28 have a covering 30, for example of gelatin, in which a liquid substance 32 is accommodated. The covering 30, which can be degraded or destroyed by pressure, temperature or moisture, is only very slightly permeable to the substance 32, with the result that only a small amount of substance escapes outwardly from the interior of the covering 30 per unit time.

25

30

As an alternative to a fleecy material layer 16, the laminated composite material 10 may also include a fleece, for example a woollen fleece.

The support layer 12 may, when the laminated composite material 10 is used as a bed inlay, also be a flexible network 34 (see Fig. 3) consisting of a material with a high coefficient of friction, e.g. rubber, the slipping of the laminated composite material 10 on a backing thereby being prevented. The flexible network 34 is bonded to the sheet 14, but alternatively may also be welded or stitched to the latter.

In the production of endless strips of the laminated

composite material 10, the cover layer 18 is not formed as a loose layer, but is bonded to the fleecy material layer 16 as illustrated in Fig. 4. For the sake of better comprehension part of the cover layer 18 has been omitted in Fig. 4 in order to provide a view of the underlying fleecy material layer 16. The fleecy material layer 16 carries portions of adhesive on a plurality of bonding positions 36 arranged in the manner of a grid. The adhesive arranged in this way bonds the cover layer 18 at separate points to the fleecy material layer 16. In this way a sufficient area through which an exchange of air or moisture is possible remains even when an impermeable adhesive is used between the bonding positions 36.

As an alternative to bonding, the sheet 14 may also be welded to the support layer 12 or to the fleecy material layer 16 or to the fleece.

The function of the laminated composite material 10 is as follows:

If the laminated composite material 10 is used, for example as a bed inlay, bed sheet or as an article of underwear,

the cover/woven fabric layer 18 faces the user's body.

Body fluid released by the user penetrates the cover/woven fabric layer 18 and is absorbed by the fleecy material layer 16. The body fluid is distributed by diffusion over a large area of the laminated composite material 10, with the result that in the region of the cover/woven fabric layer 18 there is no unpleasant accumulation of liquid.

The sheet 14 serves as a liquid trap, so that the user's body fluid cannot penetrate the laminated composite material.

Due to the absorption of the body fluid in the fleecy material layer 16 and/or in the fleece, the body fluid is dissipated away from the user's body, so that the latter remains dry.

A further application of the laminated composite material 10 is in the long-lasting use of volatile substances or 20 odoriferous substances.

A volatile substance 32, for example a menthol or herbal extract for improving the permeability of the respiratory pathways, or a fragrance, escaping through the coverings 30 of the microcapsules 28 penetrates the cover/woven fabric layer 18 over a long period of time, which may be predetermined via the substance concentration and the permeability of the covering 30, and is inhaled by the user when the latter breathes.

JOSS Rec'd POT/PTO 2 4 JAN 2002

Patent Claims

- 1. Flat, flexible laminated composite material, with a liquid-impermeable layer (14) and a liquid-absorbent layer (16) joined to the latter, characterised in that a support layer (12), comprising a flexible network layer (34), carries the liquid-impermeable layer (14).
- Laminated composite material according to claim 1,
 characterised in that the liquid-impermeable layer is a sheet (14).
- 3. Laminated composite material according to claim 1 or 2, characterised in that the liquid-absorbent layer (16) has a pile (22), preferably of cotton fibres (24).
- Laminated composite material according to claim 3, characterised in that the liquid-absorbent layer (16)
 comprises a fleecy material.
 - Laminated composite material according to claim 1 or
 characterised in that the liquid-absorbent layer
 is a fleece layer.
 - 6. Laminated composite material according to one of the preceding claims, characterised in that the liquid-absorbent layer (16) contains microcapsules (28) that are filled with a substance (32) and that have a covering (30) that can be degraded or destroyed by pressure, temperature or moisture.
- 7. Laminated composite material according to claim 6 in conjunction with claim 3, characterised in that the microcapsules (28) adhere to the fibres (24) of the pile (22), preferably via a bonding agent (26).

AMENDED SHEET

25

- 8. Laminated composite material according to one of claims 1 to 7, characterised in that the flexible network layer (34) consists of a material having a high degree of friction, in particular rubber.
- 9. Laminated composite material according to one of the preceding claims, characterised in that a liquid-permeable, preferably hydrophobic cover layer (18) for the liquid-absorbent layer (16) is provided on the side remote from the liquid-impermeable layer (14), the said cover layer being joined to the liquid-absorbent layer (16).
- 10. Laminated composite material according to claim 9,
 15 characterised in that the cover layer (18) is bonded
 to the liquid-absorbent layer (16), the bonding agent
 being provided on a plurality of bonding positions
 (36) spaced apart from one another and distributed
 over the surface of the laminated composite material
 20 (10).



(43) Internationales Veröffentlichungsdatum 8. Februar 2001 (08.02.2001)

(10) Internationale Veröffentlichungsnummer WO 01/08880 A1

(51) Internationale Patentklassifikation7: A61F 13/15, 5/48, A41D 31/02

B32B 7/02,

(72) Erfinder; und (75) Erfinder/Anmelder (nur für US): TEBBE, Gerold

(21) Internationales Aktenzeichen:

PCT/EP00/05789

[MC/MC]; 11, avenue Princesse Grace, MC-98000 Monte Carlo (MC).

(22) Internationales Anmeldedatum:

23. Juni 2000 (23.06.2000)

(74) Anwälte: OSTERTAG, Ulrich usw.; Eibenweg 10, D-70597 Stuttgart (DE).

(25) Einreichungssprache:

Deutsch

(26) Veröffentlichungssprache:

Deutsch

(30) Angaben zur Priorität:

(81) Bestimmungsstaaten (national): JP, US.

199 36 154.1 31. Juli 1999 (31.07.1999) (84) Bestimmungsstaaten (regional): europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von US): DEOTEXIS INC. [US/US]; Suite 2900, 885 Third Avenue, New York, NY 10022-4838 (US).

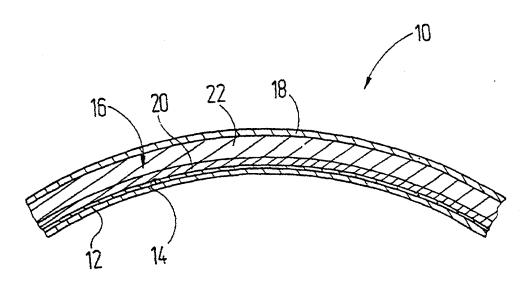
Veröffentlicht:

Mit internationalem Recherchenbericht.

[Fortsetzung auf der nächsten Seite]

(54) Title: FLAT, FLEXIBLE, BONDED COMPOSITE MATERIAL

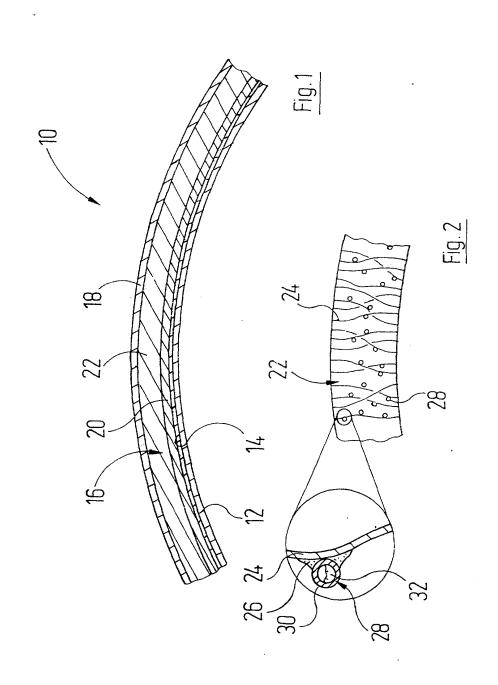
(54) Bezeichnung: FLÄCHIGER BIEGSAMER ABSORBIERENDER SCHICHT-VERBUNDSTROFF

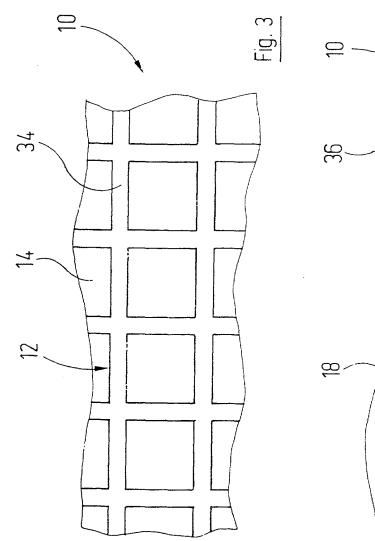


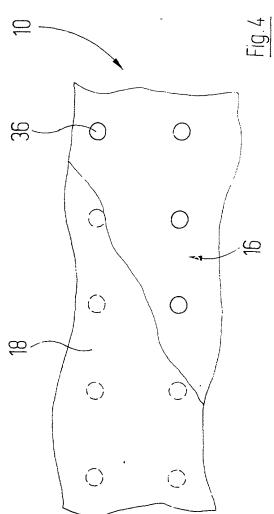
(57) Abstract: The invention relates to a flat, flexible, bonded composite material (10) for use in textiles. Said composite material has a watertight layer (14) and a liquid-absorbent layer (16) which is connected thereto. The bodily fluid given off by a user is absorbed by the liquid-absorbent layer (16). The watertight layer (14) prevents the liquid from seeping through the bonded composite material (10).

(57) Zusammenfassung: Ein flächiger biegsamer Schicht-Verbundstoff (10) zur Verwendung als Textilmaterial weist eine flüssigkeitsundurchlässige Schicht (14) und eine mit dieser verbundenen flüssigkeitsaufnehmenden Schicht (16) auf. Von einem Benutzer abgegebene Körperflüssigkeit wird von der flüssigkeitsaufnehmenden Schicht (16) aufgenommen. Die flüssigkeitsundurchlässige Schicht (14) verhindert, dass die Flüssigkeit durch den Schicht-Verbundstoff (10) hindurchsickert.









Please type a plus sign (+) inside this box

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

☐ Declaration Submitted with Initial Filing

OR

(37 CFR 1.63) Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Nur	nber	
First Named Invento	TEBBE	
COMP	ETE I	F KNOWN
Application Number		
Filing Date	Jan	usry 24, 2002
Group Art Unit		-
Examiner Name		

As a below named inve	ntor, I hereby dec	are that:		
		enship are as stated below next		
I believe I am the origina listed below) of the subje	, first and sole inve ct matter which is o	ntor (if only one name is listed claimed and for which a patent i	below) or an origing is sought on the in	nal, first and joint inventor (if plural names are evention entitled:
Flat, fl	exible,	bonded composi	ite mate	rial
the specification of wh	ch	(Title of the Invention)		
is attached here OR	to			
was filed on (MI	W/DD/YYYY)	06/23/2000	as United States	Application Number or PCT International
Application Number	EP00/057	and was amended (MM	M/ĐĐ/YYYY)	(If applicable).
amendment specifically	referred to above.			ification, including the claims, as amended by any
I acknowledge the duty t	o disclose informat	ion which is material to patenta	bility as defined in	137 CFR 1.56.
365(a) of any PCT interr	national application		r patent or invento	plication(s) for patent or inventor's certificate, or the United States of America, listed below and r's certificate, or of any PCT international
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? 'YES NO
199 36 154.1	DE	07/31/1999		
Additional fossion (nolication numbers	r s are listed on a supplemental p	riority data sheet	PTO/SB/02B attached hereto:
		119(e) of any United States pro		
Application Number(s)		Filing Date (MM/D		
	_, ,			Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/01 (12-97)

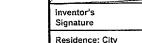
Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Litility or Design Patent Application

<u>ע</u>	CCLAI	RATION	<u> </u>	Junity C	טו וע	SIY	IFale	HIL M	Julica	LIOTI
United States United States information w	s of America, ! s or PCT Interr rhich is materi	nder 35 U.S.C. 120 isted below and, in national application ial to patentability a ernational filing dat	sofar as the in the manr as defined in	e subject mat ner provided b n 37 CFR 1.5	ter of each	ot the aragrai	claims of this oh of 35 U.S.	s applicatio C. 112. I aci	in is not also knowledae th	e duty to disclose
U.S. Parent Application or PCT Parent Number				P	arent Filii (MM/DD/	ng Da YYYY	te	Parent Patent Number (if applicable)		
PCT/EP00/05789				06/23/	06/23/2000					
☐ Additional	U.S. or PCT into	emational application r	umbers are li	sted on a suppl	emental priori	ty data s	heet PTO/SB/0	02B attached	hereto.	
	nventor, 1 herek k Office connec	by appoint the follow ted therewith:	Cu OF	istomer Numbe	er	228	76		$\rightarrow \parallel \parallel \parallel$	2876
	Name			gistration Number			Name		PATENT	RegistrationOFFI Number
Jody L. Fa Jovan N William L.	actor Jovanovic		34157 40039 46830							
Addition:	al registered p	ractitioner(s) named	i on suppler	mental Regist	ered Practiti	oner In	formation she	set PTO/SB	/02C attached	d hereto.
		to: X Customer	Number							address below
		or Bar Co	de Label	111111	772	76	(1144)		\	-\-
Name	Jovan N. J	ovanovic		PASE	ZZO M I TRADÉM	/ U	FFICE		<i>)</i>	
Address	FACTOR	& PARTNERS,	LLC							
Address	100 West !	Monroe St., Suite 3	300							
City	Chicago				State	IL		ZIP	60603	
Country	USA		Telephone	312-5	312-578-0400 Fax			312-578-8220		
believed to l punishable l	be true; and fi by fine or imp	tatements made h urther that these s risonment, or both issued thereon.	tatements v	vere made w	ith the knov	wiedae	that willful for	alse staten	ients and the	e like so made are
Name of	Sole or Fir	rst Inventor:	1		□ Аре	tition h	nas been file	ed for this	unsigned in	ventor
Given Name (first and middle [if an			le [if any])	any]) Famil			ly Name or Surname			
G	erold		-		Tebb	e			,	
Inventor's Signature		id	2.60	(le				Date	04 02 0	
Residence: City Monte C		Monte Car	lo s	State	Со	untry	MC		Citizenship	German
Post Office Address				DEX						
Post Office	Address	11, avenu	e Prin	cesse G	race					
City		Monte Car				8000)	Country	MC -	



Additional inventors are being named on the

TOPELL'ENGENIUM

supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto